

142104-02  
ACCESSION NR: AP5007788

The

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

ATD PRESS: 3238

*ml*  
Card 2/2

L 4207-65

ACCESSION NR: 4207-65

FILE: 4207-65

TITLE: A-c differentiating circuit, no. 1963. 16

SOURCE: Byulleten' izobreteniy i izvremennyye izobryadki, no. 7, 1963. 16

TOPIC TAGS: ac differentiating device, ac differentiating circuit, servosystem, stabilization.

ABSTRACT: The proposed a-c differentiating circuit, for the stabilization of servosystems, reacts only to increases in signal amplitude. It contains integrable elements. The circuit is simple and reliable. It is suitable for use in servosystems.

ASSOCIATION: none

SUBMITTED: 11 Oct 61  
NO REF SOV: 000

ENCL: 00  
OTHER: 000

SUB CODE: EC, IE  
ATD PRESS: 3237

Card 1/1

TURCHENKOV, V.I., master (Volgograd)

Refesigning of the semiclutch of an electric motor.  
Energetik 14 no.1:32-33 Ja '66. (MIRA 19:1)

STOROZHENKO, Aleksandr Panteleyevich; SOKOLOV, Vladimir Gennadiyevich;  
KOZLOVA, Neonila Petrovna; GUSAROVA, Mariya Afrikanovna;  
VORONOV, Kuz'ma Denisovich; KARPOVA, N.N., otv. red.; TURCHENKO,  
V.K., otv. red.; GARBER, T.N., red. ~~izd-vo~~; BOLDYREVA, Z.A.,  
tekhn. red.

[Maintenance of machines in coal-preparation plants] Ukhod za  
mashinami na ugleobogatitel'nykh fabrikakh. Moskva, Gos.  
nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 258 p.

(MIRA 15:1)

(Coal preparation—Equipment and supplies)

TURCHENKO, V.K., inzh.

Studying the process of bed sedimentation in a unidirectional flow fig.  
Obcg. i prik. ugi. no.26:51-61 '62, (MIRA 17:6)

DUNAYEV, M.N.; TURCHENKO, V.K.; GREBENSHCHIKOV, V.P.; MELIK-  
STEPANOVA, A.G.; OL'FERT, A.I., otv. red; PRONINA,  
N.D., tekhn. red.

[Preparation, dewatering, and drying of fine coal; survey of  
foreign material] Obogashchenie, obezvozhivanie i sushka mel-  
kogo uгля; obzor zarubezhnykh materialov. Moskva, TSentr.  
in-t tekhn. informatsii, 1962. 77 p. (MIRA 164)  
(Coal preparation)

DUNAYEV, Maksim Nikitovich, inzh.; TURCHENKO, Vasil'y Kuz'mich, inzh.;  
MELIK-STEPANOVA, Alla Georgiyevna, inzh.; GREBENSHCHIKOV,  
Vladimir Petrovich, inzh.; DREMAYLO, P.G., otv.red.; OL'FERT,  
A.I., red.izd-va; BOLDYREVA, Z.A., takhn. red.

[Preparation of unclassified coals] Obogashchenie neklassifi-  
tsirovannykh uglei. [By] Dunaev, M.N. i dr. Moskva, Gosgortekh-  
izdat, 1963. 181 p. (MIRA 16:3)

(Coal preparation)

DUNAYEV, M.N., inzh.; TURCHENKO, V.K., inzh.

Coal jiggling. Obog.1 brik. ugl. no.21:75-83 '61. (MIRA 16:5)  
(Coal preparation) (Separators (Machines))

5



SKLOVSKAYA, A.A., otv. red.; DREMAYLO, P.G., inzh., zam. otv. red.; KAMINSKIY, V.S., kand. tekhn. nauk, zam. otv. red.; AVETISYAN, A.N., red.; BRILLIANTOV, V.V., kand. tekhn. nauk, red.; GALIGUZOV, N.S., kand. tekhn. nauk, red.; GORLOV, I.P., red.; GREBENSHCHIKOV, V.P., red.; DAVYDKOV, M.I., red.; ZVENIGORODSKIY, G.Z., red.; KARPOVA, N.N., red.; KOZKO, A.I., red.; MARUSEV, P.A., red.; PONOMAREV, I.V., red.; POPUTNIKOV, F.A., red.; SOKOLOVA, M.S., kand. tekhn. nauk, red.; TURCHENKO, V.K., red.; FILIPPOV, V.A., red.; YUSIPOV, A.A., red.; YAGODKINA, T.K., red.; MIRONOVA, T.A., red. izd-va; LOMILINA, L.N., tekhn. red.; MAKSIMOVA, V.V., tekhn.red.

[Technological trends in coal preparation] Tekhnicheskie napravleniya obogashcheniya uglei. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1963. 120 p. (MIRA 16:10)

1. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut po obogashcheniyu i briketirovaniyu ugley. 2. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut po obogashcheniyu i briketirovaniyu ugley (for Yagodkina, Brilliantov).  
(Coal preparation)

L 16148-63

ACCESSION NR: AR3005171

S/0058/63/000/006/BD19/BD19

SOURCE: RZh. Fizika, Abs. 6 Zh120

45

AUTHORS: Tereshchenko, A. I.; Shevin, A. G.; Turchenko, V. L.

TITLE: Q of anode block of the magnetron type of resonators of elliptic cross section

CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 127, 1962, Tr. Radiofiz. fak., v. 6, 43-49

TOPIC TAGS: Magnetron, anode block, intrinsic Q, elliptic cross section

TRANSLATION: An approximate calculation is made of the intrinsic Q of a magnetron block of resonators of elliptic cross section. The stored high-frequency energy and the energy lost in the metal walls, which are contained in the expression for the Q, are calculated with the aid of the high-frequency component of the magnetic field, expressed in terms of Mathieu functions of the first and second kind. Analytic formulas are obtained for the intrinsic Q of a single elliptic resonator and of a block of elliptic resonators with account of the effect of the anode-

Card 1/2

L 16148-63

ACCESSION NR: AR3005171

0  
cathode space. For example, the intrinsic Q calculated from the formulas given in the paper for a system of eight elliptic resonators in eight frequency bands, is equal to 1950. From a comparative table of the values of Q of resonators of different types used in magnetrons it follows that the elliptic resonators have the largest Q. In addition, it is noted that an anode block with elliptic resonators has also larger frequency separation as compared with other resonators (approximately 4.8--5.6% without straps). G. Korostelev.

DATE ACQ: 15Jul63

SUB CODE: GE, SP

ENCL: 00

Card 2/2

TURCHENKO, Vadim Vasil'yevich, polkovnik, kand.voyennykh nauk;

DUKACHEV, M.P., polkovnik, red.; SLEPTSOVA, Ye.N., tekhn.red.

[Consolidating gains in battle] Zakreplenie uspekha v boiu,  
Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 127 p.

(MIRA 14:2)

(Tactics)

TURCHENKOV, V.I.

Annular electronic commutator for switching two-polar constant  
voltage. Izv. tekhn. no.1:25-26 Ja '64.

(MIRA 17:11)





TURCHENKOV, V.I., inzh.

Precise stabilization of the amplification factor of an amplifier and the determination of its failure moment under operating conditions. Priborostroenie no.3:27 Mr '65.

(MIRA 18:4)



TROFIMENKO, N.; SHAKALOV, O.: TURCHENKOVA G.

Chemicalization as a way for increasing the production of grain.  
Zemledelie 26 no.9:79 S '64. (MIRA 17:11)

1. Glavnyy agronom sovkhoza "Gigant" Rostovskoy oblasti (for Trofimenko). 2. Starshiy agronom-polevod sovkhoza "Gigant" Rostovskoy oblasti (for Shakalov). 3. Zaveduyushchaya agro-khimicheskoy laboratoriyey sovkhoza "Gigant" Rostovskoy oblasti (for Turchenkova).

SHTAYNEBUKH, N.V.; TURCHENKOVA, V.Yu.

Electroencephalographic changes in tuberculous meningitis in children during therapy. Zhur.nevr. i psikh. 56 no.9:725-730 (MIRA 9:11)  
' 56.

1. Rostovskiy oblastnoy nauchno-issledovatel'skiy peditricheskiy institut

(ELECTROENCEPHALOGRAPHY, in various diseases,  
thuberc. meningitis in child. during ther. (Rus))  
(TUBERCULOSIS, MENINGEAL, in infant and child,  
EEG during ther. (Rus))

PHASE I BOOK EXPLOITATION

468

Turchenko, Yakov Ivanovich

Osnovnyye puti razvitiya obshchey, neorganicheskoy i fizicheskoy khimii na Ukraine; XIX st. i pervaya polovina XX st. (Basic Trends in the Development of General, Inorganic and Physical Chemistry in the Ukraine; the 19th Century and First Half of the 20th Century) Kiev, Izd-vo Kievskogo gos. univ-ta, 1957. 433 p. 4,000 copies printed. Sponsoring agencies: Ministerstvo vysshego obrazovaniya UkSSR and Kievskiy tekhnologicheskiy institut legkoy promyshlennosti. Kafedra neorganicheskoy i analiticheskoy khimii.

Resp. Ed.: Kotov, M. P., Prof.; Ed.: Skvirskaya, M. P.; Tech. Ed.: Khokhanovskaya, T. I.

PURPOSE: The book is intended as a reference book for scientists interested in the history of chemistry.

COVERAGE: Some works pertaining to organic chemistry, analytical chemistry and chemical technology which contributed to the development of general and physical chemistry were included in this book to give full coverage of the history of

Card 1/6

468

# Basic Trends in the Development (Cont.)

development of general and physical chemistry in the Ukraine. Scientific works of Soviet and non-Soviet chemists published in 1800-1956 were used as source material. With some exceptions, material up to the second half of the 19th century was used. Brief biographies of the most famous chemists are given in footnotes. Data from books by G. A. Mel'nik, G. S. Al'terzon, etc. were included in the book. There are 760 references, 707 of which are Soviet, 40 German, 6 French, and 7 English.

## TABLE OF CONTENTS:

Foreword

3

Introduction

29

Ch. I. Development of Chemistry in the Ukraine in the First Half of  
the 19th Century

1. Early period of development of chemistry at Khar'kov University.  
F. I. Gize
2. Development of chemistry in the Ukraine in the 1820-1840's.
3. Progress in the development of chemistry at Khar'kov University  
in the middle of the 19th century. A. I. Khodnev.

29

40

50

Card 2/6

Basic Trends in the Development (Cont.)

468

Ch. II. Development of Chemistry in the Ukraine in the Second Half of the 19th Century	65
1. Nikolay Nikolayevich Beketov	65
2. Establishment of a physicochemical department at Khar'kov University	87
3. Study of displacement of some elements by others	92
4. Reduction of metals from their oxides by aluminum	100
5. Law of mass action	105
6. Development of D. I. Mendeleev's periodic law	115
7. Participation of chemists in the development of productive forces of the country	130
8. Development of concepts of valence and of chemical affinity	137
9. Thermochemical studies	159
10. Study of the oxidation of carbon monoxide	172
11. Peroxides and per acids	177
12. General survey of the development of the theory of solution	185
13. Development of chemical theory of solution in the second half of the 19th century in the Ukraine	190
14. Development of physical theory of solution in the last quarter of the 19th century	200

Card 3/6

Basic Trends in the Development (Cont.)

468

Ch. III. Development of Chemistry in the Ukraine at the Beginning of the 20th Century (Pre-October Period)	209
1. Development of the theory of solution in the Ukraine at the beginning of the 20th century	209
2. Development of colloid chemistry in the Ukraine	222
Ch. IV. Development of Chemistry in the Ukraine During the Civil War and in the Restoration Period (1917-1927)	231
1. Growth of the network of scientific centers in the Ukraine	231
2. The Kiyev school of electrochemists	235
3. Dnepropetrovsk school of physical chemists	242
4. Khar'kov chemists in the first years after the October Revolution	256
5. The Odessa center of development of chemical thought in the first years after the October Revolution	260
Ch. V. Development of Chemistry in the Ukraine During the First Five Year Plans	264
1. Electrochemical investigation of solutions and fusions	267
2. Formation of complexes in solutions and fusions	279
3. Kinetics and catalysis	285
4. Isotope chemistry	293

Card 4/6

Basic Trends in the Development (Cont.)

468

5. Development of colloid chemistry. Study of adsorption and ion-exchange processes	296
6. Photochemistry	307
7. Radiological, geochemical and hydrochemical studies	309
8. Chemical treatment of mineral raw material	311
Ch. VI. Development of Chemistry in the Ukraine During World War II and in the Postwar Period (1941-1950)	315
1. The most significant works performed during World War II	315
2. Development of colloid chemistry during the postwar period. Adsorption and ion-exchange processes	321
3. Chemistry of isotopes. Study of molecular structure and of the mechanism of chemical reactions	337
4. Thermodynamic study of organic chemistry reactions	347
5. Photochemistry during the postwar period	348
6. Development of studies on kinetics and catalysis	350
7. Chemistry of complex compounds	358
8. Development of electrochemistry in the Ukraine during the postwar period	368
9. Physics and chemistry of silicates	382

Card 5/6

Basic Trends in the Development (Cont.)

468

Conclusion

384

Bibliography and archival sources

399

Author index

425

AVAILABLE: Library of Congress

Card 6/6

TM/eag  
10/8/58



16KCHINKO, Ya. I.

Translation from: Referativnyy Zhurnal, Metallurgiya, 1957, Nr 1  
p. 6 (USSR) 137-1-71

AUTHOR: Turchenko, Ya. I.

TITLE: "Typicality of Nectary" (A handwritten collection of prescriptions for the industrial practice of the XVI century) ("Tipik Nektariya"-Rukopisnyy retsepturnyy sbornik po remeslennoy tekhnike XVI v.)

PERIODICAL: Tr. Kiyevsk. tekhnol. in-ta legkoy prom-sti, 1955 Nr 7, pp. 196-219

ABSTRACT: Part I of a manuscript dating back to the beginning of the XVIII century is presented. The work contains specifications and directions for the production of white lead. The technique of Au deposition on Ag, Cu, etc., is described in detail, a method of producing synthetic ("artificial") gold is presented, also other data.

Card 1/1

A.Sh.

TURCHENKO, Ya. I.

History of communication among chemists of Slavonic countries. Ya. I. Turchenko. *Uspehi Khim.* 22, 375-8 (1953).—Historical with citations and reproduction of letters. G. M. Kosolapoff

10-8-54 MEF

TURCHENKO, Ya.

Chemists

From the history of interrelations between chemists of Slavic countries. Usp. khim.  
22, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

TURCHENKO, Ya.I.; FIGUROVSKIY, N.A., redaktor.

Nikolai Nikolaevich Beketov. Moskva, Izd-vo Akademii nauk SSSR,  
1954. 206 p. (MLRA 7:11)  
(Beketov, Nikolai Nikolaevich, 1827-1911)

**TURCHENKO, Ya.I.**

History of communication among chemists of Slavonic countries. Uspekhi  
Khim. 22, 375-6 '53, (MIRA 6:3)  
(CA 48 no.2:415 '54)

BULANZHE, I. N., kand.khimicheskikh nauk, dotsent; TURCHENKO, Ya. I., dotsent,  
kand. tekhn. nauk; ZIL'BERG, G. I., inzh.

Studying the wear resistance of phosphate coated steel surfaces.  
Report no.1. Izv.vys.ucheb.zav.; tekhn.prom. no.4:147-153 '61.  
(MIRA 14:10)

1. Kiyevskiy tekhnologicheskii institut legkoy promyshlennosti.  
Rekomendovana kafedroy obshchey i analiticheskoy khimii.  
(Steel, Structural—Testing)  
(Phosphate coating—Testing)

S/137/62/000/001/208/237  
A154/A101

AUTHORS: Bulanzhe, I. N., Turchenko, Ya. I., Zil'berg, G. I.

TITLE: Investigation of the wear-resistance of phosphate-coated steel surfaces. Communication 1

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 94, abstract 1I673  
("Izv. vyssh. uchebn. zavedeniy. Tekhnol. legk. prom-sti", 1961,  
no. 4, 147 - 153)

TEXT: A pure Mazhef solution is the most suitable for phosphate-coating small parts. Various additions of  $\text{CaO}$ ,  $\text{BaCO}_3$  and  $\text{Ba}(\text{NO}_3)_2$ , as well as passivation in a  $\text{K}_2\text{Cr}_2\text{O}_7$  solution, impair the external appearance of the items, giving them a greyish hue. The most aggressive solutions are Mazhef solutions containing  $\text{BaCl}_2$ , and superphosphate solutions containing  $\text{H}_2\text{C}_2\text{O}_4 + \text{Na}_2\text{C}_2\text{O}_4$ . They can be recommended for phosphate-coating alloyed steels. The most corrosion-resistant coatings are obtained from a Mazhef solution brought to the required acidity by the addition of  $\text{MnCO}_3$  or  $\text{Na}_3\text{PO}_4$ , with subsequent treatment in commercial vaseline. The corrosion-resistance of phosphate coatings is over 10 times higher than that of coatings obtained by hot sulfidizing or oxidizing. Phosphatizing increases

Card 1/2

Investigation of the...

S/137/62/000/001/208/237  
A154/A101

the wear-resistance of items subjected to comparatively low specific pressures (12 - 14 kg/cm<sup>2</sup>) and low speeds (200 rpm). Under these conditions the most effective results are obtained in phosphate-phosphate friction. The friction surface becomes smooth, lustrous and black. The friction factor varies between 0.03 and 0.09. A film obtained from a Mazhef solution possesses the highest electrical resistivity -  $5 \cdot 10^7$  ohm/cm at 20°C. There are 7 references.

Authors' summary

[Abstracter's note: Complete translation]

Card 2/2



BOL'SHAKOV, L.A., kand.tekhn.nauk; BUL'SKIY, M.T., inzh.; TURCHENKOVA, Ye.K.,  
inzh.; YEGNUS, R.M., inzh.; SVIRIDENKO, F.F., inzh.; TARASOVA, L.P.,  
inzh.; SLEPKANEV, P.N., inzh.; GAVRIKOV, V.Z., inzh.

Efficient design of large rail ingot molds. Stal' 20 no.9:793-797  
S '60; (MIRA 13:9)

1. Zavod "Azovstal'" i Zhdanovskiy metallurgicheskiy institut.  
(Ingot molds)

*TURCHINOVICH, N.N.*

USSR/Microbiology. Hemoglobinophilic Bacteria. Pathogenic Fungi  
and Actinomycetes

F-5

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 62528

Author : Turchinovich N.N.

Inst : Stalinskiy Institute for the Advanced Training of Physicians

Title : Candidamyceses in Ophthalmology. Experimental Data

Orig Pub : Sb. tr. Stalinsk. in-t usoversh. vrachey, 1957, 27, 338-  
346

Abstract : No abstract

Card : 1/1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200  
 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300  
 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400  
 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500  
 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600  
 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700  
 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800  
 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900  
 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

TURCHENKO, Yakov Ivanovich; KOTOV, M.P., prof., otvetstvennyy red.;  
SKVIRSKAYA, M.P., red.; KHOKHANOVSKAYA, T.I., tekhn.red.

[Main lines of the development of general, inorganic and physical chemistry in the Ukraine (the 19th century and the first half of the 20th century)]. Osnovnye puti razvitiia obshchei, neorganicheskoi i fizicheskoi khimii na Ukraine (XIX st. i pervaya polovina XX st.). Kiev, Izd-vo Kievskogo gos.univ.im.T.G.Shevchenko, 1957. 433 p. (MIRA 10:12)

(Ukraine--Chemistry--History)

The above information is classified as follows:

OF AMERICAN ORIGIN. The program is considered to be of American origin.

3. ASHES. From the point of view of the program, it is considered to be of American origin.

TURCHENKOV, V.I.

A.C. phase sensitive resistor trigger circuit. Pribozostroenie  
(MIRA 18:3)  
no.12:19-21 D '64.

EXCERPTA MEDICA Sec 7 Vol. 11/6 Pediatrics June 57

5)

1524. STEINBURKH N. V. and TURCHENKOVA V. Yu. Reg. Sci. and Exp. Inst. of Paed., Tostov, USSR. "Changes in the encephalograms of children suffering from tuberculous meningitis during treatment (Russian text) Z. NEVROPAT. PSIKIAT. 1956, (725-730)-730)

564 EEG's were recorded of 61 children suffering from tb meningitis and of 25 children with serous meningitis and meningo-encephalitis of non tb origin. The number of recordings for one patient varied from 1 to 22 and the period of observation from 1 to 250 days. The EEG's were recorded by fronto-occipital derivations and additional bipolar occipito-temporal and temporal-frontal derivations as well as unipolar derivations from frontal, temporal, central and occipital areas were recorded. As a rule all the EEG's recorded in patients suffering from tb meningitis in the acute stage showed distinct pathological phases with characteristic depression of the  $\alpha$ -rhythm and appearance of pathological slow waves. The frequency of the waves decreased and the voltage increased in ratio to the severity of the process. When treatment is started early in the quiescent phase of the process the EEG may become normal long before the meningeal symptoms disappear or the CSF returns to normal. When treatment is started at a later stage normalisation may be delayed until the 30th-60th days of the illness. In the convalescence period the  $\alpha$ -rhythm is very unstable with regard to frequency and amplitude. When the disease becomes progressively generalized, death may be preceded by gradual decrease of the voltage of the slow waves which become irregular. The repeated appearance or increase of pathological slow waves after 4-5 days preceded the appearance of the first clinical symptoms of exacerbation or relapse. The above findings permit the conclusion that the presence of pathological slow waves points only to the severity of the disease and reflects the stage of the process but is not a specific symptom of tb meningitis. The data obtained by encophalography are no criteria in the differential diagnosis between tb meningitis and lymphocytic meningitis of non-tb origin in children, as stated by Tural et al.

Soloveva - Moscow (XV, 7, 8)

L 40851-66 EWT(1)  
ACC NR: AP6010022

SOURCE CODE: UR/0119/66/000/003/0009/0009

AUTHOR: Turchenkov, V. I. (Engineer)

ORG: none

TITLE: Passive-element multiplier <sup>15</sup>

SOURCE: Priborostroyeniye, no. 3, 1965, 9

TOPIC TAGS: logic element, computer component, electron multiplier

ABSTRACT: A multiplier such as the one shown in Fig. 1 can easily be built from passive elements if the voltage from a frequency sensor output is used as one of the multiplicands.

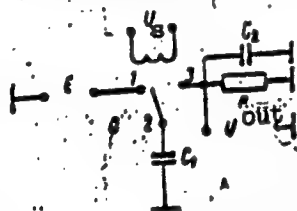


Fig. 1 Functional diagram of a multiplier.  
The voltage  $U_g$  is controlled by a switching device.

Card 1/2

UDC: 621.374.4



L 40851-66

ACC NR: AP6010022

The note presents the basic theory of the device and discusses its operation. A possible practical version of the multiplier is shown in Fig. 2. Orig. art. has: 5 formulas and 3 figures.

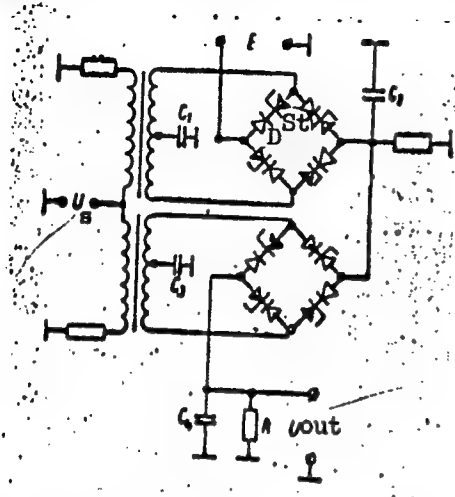


Fig. 2 Basic diagram of a multiplier:  
C<sub>1</sub>, C<sub>3</sub> - intermediate capacitors; C<sub>2</sub>,  
C<sub>4</sub> - filter condensers; D - diode; St -  
stabilitron.

SUB CODE: 09/ SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 000

Card 2/2 MLP

L 34070-66 EWT(1) GG  
ACC NR: AP6019781 SOURCE CODE: UR/0119/66/000/006/0017/0018

AUTHOR: Turchenkov, V. I. (Engineer)

ORG: none

TITLE: Phase switch based on semiconductor devices

SOURCE: Priborostroyeniye, no. 6, 1966, 17-18

TOPIC TAGS: trigger circuit, semiconductor device

ABSTRACT: A trigger circuit is discussed with two stable states characterized at its output by ac voltages whose phases differ by  $180^\circ$ . The circuit is activated by an ac input signal envelope exceeding a certain threshold. Functionally, the circuit is an ac dual of a Schmidt trigger circuit. Its schematic diagram is shown in the figure. It consists of an emitter coupled flip-flop fed by two full-wave rectifiers acting on an ac reference voltage  $U_{ref}$ . The circuit's threshold level is set by Zener diodes  $D_6-D_8$ . To change the state of the circuit, the reference and input voltages must be in synchronism. The time constant  $R_1C_1$  determines the duration  $t_1$  (see time chart); these are inversely related. The circuit was tested for stability, establishing that if transistor  $\beta$  is changed from 20 to 100 the threshold level changes from 16.5 to 17.2 v rms. When  $U_{ref}$  is changed from 8 to

Card 1/2

UDC: 621.314.252

L 34070-66

ACC NR: AP6019781

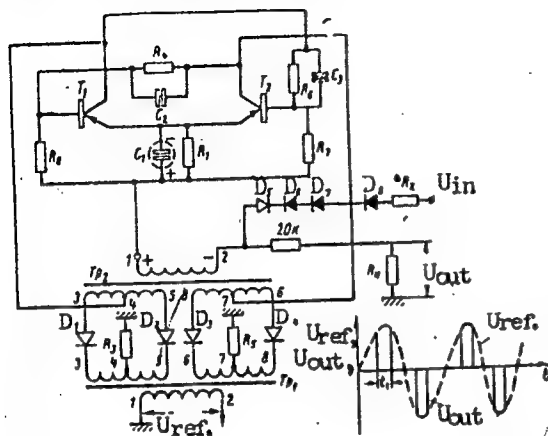


Fig. 1. AC trigger circuit

13 v rms the threshold levels change from -17, +17.7 to -18, +18.5 v rms, respectively (the signs refer to opposite phases). The threshold vs temperature tests indicated the following: at 20C the threshold levels were +17 and -17 v; at 60C they were +16.85 and -16.85; and at -60C they were +16.5 and -16.6 v rms, respectively. The circuit may also find application as a pulse width modulator if it is slightly modified (if the  $R_1C_1$  combination is replaced by a regulated power supply, and if  $U_{ref}$  is a sawtooth voltage source). Orig. art. has: 1 figure. [BD]

SUB CODE: 09/ SUBM DATE: none  
ATD PRESS: 50/9

Card 2/2

TURCHENKOVA, Ye.K., inzh.; SIKORSKIY, A.I., inzh.; YEGNUS, R.M., inzh.;  
BOLDYREV, L.I., inzh.; RAZNOTINA, Ye.T., inzh.; BOL'SHAKOV, L.A.,  
kand.tekhn.nauk; GAVRIKOV, V.Z., inzh.

Life of 650 rolling mill sleeve joints made of cast iron with  
spheroidal graphite. Stal' 18 no.8:763-766 Ag '58. (MIRA 11:8)

1.Zhdanovskiy metallurgicheskii institut i zavod "Azovstal'."  
(Cast iron--Metallography)

SOV/133-58-8-29/30

AUTHORS: Turchenkova, Ye.K., Sikorskiy, A.I., Yegnus, R.M.,  
Boldyrev, L.I., Raznotina, Ye.T., Engineers, Bol'shakov,  
L.A., Candidate of Technical Sciences, and Gavrikov, V.Z.,  
Engineer

TITLE: Performance of the Coupling Sleeves Made From Nodular Iron  
at the Mill 650 (Rabota soyedinitel'nykh muft iz chuguna  
s sharovidnym grafitom na stane 650)

PERIODICAL: Stal', 1958, Nr 8, pp 763 - 766 (USSR)

ABSTRACT: As the durability of the coupling sleeves of the mill 650  
made from grey iron decreased with increased degree of  
reduction per pass introduced in the rolling practice, the  
use of sleeves made from nodular iron was investigated.  
Four series of experimental smelting of magnesium-inoculated  
iron were carried out. Sleeves from the first series  
were tested as cast and of the remaining series after  
various heat treatments. The chemical composition,  
mechanical, and conditions of thermal treatment are given  
in Table 1. The microstructure of heat-treated metal  
- Figures 1-3, the mould for casting of sleeves - Figure 4,  
the results of service life of sleeves made from nodular  
iron, grey iron and steel - Table 2. On the basis of the  
results obtained, it is concluded that the service life

Card1/2

SOV/133-58-8-29/30  
Performance of the Coupling Sleeves Made from Nodular Iron at the  
Mill 650

of sleeves from nodular iron is 4-6 times higher than that  
of sleeves made from grey iron. The optimum heat treatment  
is normalisation with subsequent annealing at 580 °C.  
Sleeves should be cast with the consumption of metal for  
shrinkage head not less than 20% of the weight of casting.  
When coupling sleeves are not heat-treated, then the sum  
of C + Si in nodular iron should be maintained in a range  
of 5.5-6.0%. There are 5 figures and 2 tables.

ASSOCIATIONS: Zhdanovskiy metallurgicheskiy institut (Zhdanov  
Metallurgical Institute) and Zavod "Azovstal'"  
("Azovstal'" Works)

Card 2/2

1. Couplings--Materials
2. Couplings--Test results
3. Iron--Applications
4. Steel--Applications

KRASOVITSKIY, V.S., kand.tekhn.nauk; TURCHENKOVA, Ye.K., inzh.; YEGNUS,  
R.M., inzh.

Increasing the durability of closed-bottom molds. Stal' 21 no.5:  
475-476 My '61. (MIRA 14:5)

1. Zhdanovskiy metallurgicheskiy institut i zavod "Azovstal'."  
(Steel ingots)

ABBASOVA-ZEPALOVA, C.N., GEFTER, YU.N., GLYNKA-GEMNORITSKAYA, YE.L.,  
KOLIK-BADZAROVA, M.G., TURGENTSO, YE.I., TODMAN-CHEVVALONOVA, YE.E.

Metabolism

Changes of the metabolism index in tissues of rats due to alimentary protein deficiency.  
Ukr.biokhim.zhur. 22, no. 3, 1950.

9. Monthly List of Russian Accessions, Library of Congress, OCTOBER 1952  
1953. Unclassified.



ABBASOVA-ZEPALOVA, O.N., GERTAR, T.J.M., GILYNEI-CHEKHORUTSKAYA, YE.I.,  
MELIK-BAGDASAROVA, M.G., TURCHENKO, YE.I., TIDMAN-GELTVOROVA, Y.I.K.

Proteins

Changes of the metabolism index in tissues of rats due to alimentary protein deficiency.  
Ukr.biokhim.zhur. 22, no. 3, 1950.

9. Monthly List of Russian Accessions, Library of Congress, OCTOBER 1952 ~~1953~~ Unclassified.

ABBAKUMOVA-ZEPALOVA, O.N., GEFTER, YU. N., GLYNKA-CHERNCRUTSKAYA, YE. I.,  
MELIK-BAGDASARCVA, M.G., TURCHENKO, YE. I., TYDAN-CHETVERCKOVA, YE. K.  
MAN

Proteins

Changes of the metabolism index in tissues of rats due to alimentary protein deficiency,  
Ukr. biokhim, zhur., 22, No. 3, 1950.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

GAL'PERIN, Ye.I.; TURCHENKOV, V.I.

Ring phase detector for high output voltages. Priborostroenie  
no.11:21-22 N '62. (MIRA 15:12)  
(Voltage regulators)

TURCHENKOV, V.

Switching circuit using diodes. Radio no. 2:40-42, 44 F 164.  
(MIRA 17:3)

TURCHENKOV, V.I., inzh.

An a.c. time relay. Avtom., telem. i sviaz' 7 no. 11, 14-15 N '63.  
(MIRA 16:12)

I. 19009-63

BDS/EWT(d)

S/0119/63/000/008/0025/0026

ACCESSION NR: AP3006405

X 5

AUTHOR: Turchenkov, V. I.

TITLE: An instrument for <sup>14</sup>measuring high speeds within a small angle of shaft rotation (Author's Certificate no. 149637)

SOURCE: Priborostroyeniye, no. 8, 1963, 25-26

TOPIC TAGS: speed, speed measurement, shaft speed measurement

ABSTRACT: A new instrument is described for measuring high speeds of motors, turbines, etc., or for measuring the speed within a small angle of turn of the shaft; in the latter case, a linear-potentiometer-type primary detector is required. A rectangular pulse whose duration is "proportional to the speed" is integrated, and stored as a voltage; the voltage is amplified and applied to an indicating instrument whose scale is calibrated in speed units. The instrument can measure "high speeds, such as 1,000 degrees/sec and more," within a 0.5-degree or less angle. Any art. no. & figure.

Card 1/4

KRASOVITSKIY, V.S., kand.tekhn.nauk; TURCHENKOVA, Ye.K., inzh.;  
YEGNUS, R.M., inzh.

Chill casting of trays for ingot molds. Stal' 23 no.2:185-187  
F '63. (MIRA 16:2)

1. Zhdanovskiy metallurgicheskiy institut i Avoskiy staleplavil'nyy  
zavod im. Sergo Ordzhonikidze v Zhdanove.  
(Iron founding)

KRASOVITSKIY, V.S., kand.tekhn.nauk; BOL'SHAKOV, L.A., kand.tekhn.nauk;  
TURCHENKOVA, Ye.K., inzh.; GORBANEV, Ya.S., inzh.; YEGNUS, R.M.,  
inzh.; CHUMAK, M.A., inzh.; KISSEL', N.N., inzh.; SAL'MAN, B.Sh.,  
inzh.

Increasing the stability of ingot molds by an addition of  
ferrotitanium. Stal' 23 no.8:717-718 Ag '63. (MIRA 16:9)

1. Zhdanovskiy metallurgicheskiy institut, zavod "Azovstal'" i  
zavod im. Il'icha. (Ingot molds)



BOL'SHAKOV, L.A.; TURCHENKOVA, Ye.K.

Equal wall solid bottom molds. Metallurg 6 no.9:16 3-161.  
(MIRA 14:9)

1. Zhdanovskiy metallurgicheskiy institut i zavod "Azovstal".  
(Ingot molds)

TURCHENOV, N.I.

I-7

USSR/Chemical Technology - Chemical Products and Their  
Application. Treatment of Solid Mineral Fuels

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2459

Author : Turchenov, N.I.

Inst :

Title : Ensuring Uniform Quality of Metallurgical Coke as  
Concerns Its Mechanical Strength.

Orig Pub : Koks i khimiya, 1957, No 4, 18-23

Abstract : On the basis of the plastometric-component classification  
of coal, proposed by the author, a method has been developed  
for determining the anticipated mechanical strength  
of coke, from data concerning the amount of heliphycized  
matter (vitrain group) and cutin elements (H + C), fusai-  
nized components and coking index of coal mixtures.  
A computation batching chart is provided, the use of  
which makes it possible to determine the proportions of  
individual components of the batch mixture and the

Card 1/2

. USSR/Chemical Technology -- Chemical Products and Their  
Application. Treatment of Solid Mineral Fuels

I-7

• Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2459

plastometric-component characteristics for a given  
strength of the coke.

Card 2/2

TURCEK, F.

SCIENCE

Periodical BIOLOGICKE PRACE. Vol. 4, no. 8, 1958.

TURCEK, F. Trees, birds, and mammals in some bush belts between fields. p. 47.

Monthly List of East European Accessions (EEAI) Vol. 8, no. 3, March, 1959. LC  
Unclassified

DUBROVIN, Ye., dotsent; MERKULOV, Ye., dotsent; TURCHIKHIN, E., dotsent

Precast reinforced concrete city pavements. Zhil.-kom.khoz.  
10 no.9:27-29 '60. (MIRA 13:9)

1. Kafedra dorog Vsesoyuznogo zaochnogo inzhenerno-stroitel'nogo  
instituta.  
(Pavements, Concrete)

TURCHIKHIN, E.

TURCHIKHIN, E., inzhener.

X-ray method of examining asphalt concrete. Zhil.-kon.khoz. 4  
no.4:26-27 '54. (MIRA 7:7)  
(Asphalt) (X-rays--Industrial applications)

MURZAYEVA, I.; TURCHIKHIN, E.

Making high-quality asphalt concrete. Zhil.-kom. khoz. 9 no.4:  
25-26 '59. (MIRA 12:7)  
(Asphalt concrete)

TURCHIKHIN, E., dotsent; ZAYTSEV, L., starshiy prepodavatel'

Connection with life. Zhil.-kom. khoz. 13 no.4:19-20 Ap '63.  
(MIRA 16:5)

(Municipal services--Study and teaching)

1:



GUREVICH, L., kand. tekhn. nauk; TURCHIKHIN, E., kand. tekhn. nauk

Using colored materials in constructing pavements. Zhil.-kon. voez.  
9 no.9:16-17 '59. (MIA 13:2)

(Pavements)

OL'MEZOV, G., inzhener; TURCHIKHIN, E., inzhener.

"Asphalt concrete road surfaces." L.B. Gezentsvei. Reviewed  
by G. Ol'mezov, E. Turchikhin. Zhil.-kom.khoz. 5 no.8:28 '55.  
(MLRA 9:3)

(Roads, Concrete) (Gezentsvey, L.B.)

ACC NR:

AM6010600

(A)

Monograph

UR/

Dubrovin, YEvgeniy Nikolayevich; Turchikhin, Emmanuil YAkovlevich

Prestressed reinforced concrete used in the construction of city streets (Predvaritelno napryazhenyy zhelezobeton v stroitel'stve gorodskikh dorog) Moscow, Stroyizdat, 1965, 302 p. illus., biblio., tables. 3,500 copies printed.

TOPIC TAGS: highway construction, railway construction, concrete, reinforced concrete

PURPOSE AND COVERAGE: This book gives the results of experiments made by scientists and production organizations, and it includes studies made by the author in the field of design construction and technology of building monolithic and sectional road surfaces and rail supports for trolley lines from prestressed reinforced concrete. Also shown are the developments in foreign technology and practice in this field.

TABLE OF CONTENTS (abridged):

Preface -- 3  
Ch. I. Road surfaces from prestressed concrete and reinforced concrete -- 5  
Ch. II. Road constructions using prestressed reinforced concrete -- 31  
Ch. III. Materials for preparing prestressed reinforced constructions -- 61

Card 1/2

UDC:625.7/.8:691.32

ACC NR:

AM6010600

Ch. IV. Construction and experimental studies -- 68  
Ch. V. Design of prestressed reinforced concrete surfaces and rail supports -- 75  
Ch. VI. Mechanisms and equipment -- 148  
Ch. VII. Technology of constructing monolithic road surfaces -- 184  
Ch. VIII. Technology of industrial manufacturing of prestressed reinforced concrete constructions -- 205  
Ch. IX. Technology of construction of road surfaces and trolley lines from sectional parts -- 241  
Ch. X. Problems of the use of city streets made from prestressed reinforced concrete -- 273  
Ch. XI. Economic effectiveness of using prestressed reinforced concrete in city road construction -- 281  
Bibliography -- 296

SUB CODE: 13 / SUBM DATE: 22Jul65 ORIG REF: 085 OTH REF: 021

Card 2/2

MERKULOV, Yefim Afanas'yevich, dots., kand. tekhn. nauk; DUBROVIN,  
Yevgeniy Nikolayevich, dots., kand. tekhn. nauk; TURCHIKHIN,  
Emmanuil Yakovlevich, dots., kand. tekhn. nauk; YUDIN, Vasilii  
Aleksandrovich, dots., kand. tekhn. nauk; Prinimali uchastiye:  
SLAVUTSKIY, A.K., dots., kand. tekhn. nauk; ZAYTSEV, L.K., inzh.;  
ZAMAKHAYEV, M.S., red.; OVSYANNIKOVA, Z.G., red. izd-va

[Examples of the design of roads and public transportation systems  
in cities] Primery proektirovaniia dorog i setei passazhirskego  
transporta v gorodakh. [By] E.A.Merkulov i dr. Moskva, Gos. izd-  
vo "Vysshaya shkola," 1962. 265 p. (MIRA 16:2)  
(Road construction) (Rapid transit)

DUBROVIN, Yevgeniy Nikolayevich; TURCHIKHIN, Emmanuil Yakovlevich  
Prinimal uchastiye NAUMENKO, V.S., kand. tekhn. nauk;  
NIKOLAYEVA, N.M., red.

[Prestressed reinforced concrete in the construction of  
city streets] Predvaritel'no-napriazhennyi zhelezobeton v  
stroitel'stve gorodskikh dorog. Moskva, Stroiizdat, 1965.  
302 p. (MIRA 18:12)

TURCHIKHIN, E., inzhener

Investigating the water permeability of a bituminous film by means  
of tagged atoms. Zhil.-kom.khoz.5 no.5:24-25 '55. (MLRA 8:11)  
(Road materials)

VINITSKIY, L., dotsent; DUBROVIN, Ye., dotsent; TURCHIKHIN, E., dotsent

Elastic securing of rails to reinforced-concrete ties. Zhil.-kon.  
khoz. 10 no.10:30-31 '60. (MIRA 13:10)

1. Vsesoyuznyy zaochnyy inzhenerno-stroitel'nyy institut.  
(Street railways--Rails)



TURCHIKHIN, E. Ya.

TURCHIKHIN, E. Ya., Cand Tech Sci, -- (diss) "Study of the water permeability of asphalt concrete by means of radioactive isotopes." Mos, 1958. 13 pp (Min of Higher Education USSR. Mos Order of Labor Red Banner Engineering -Construction Inst im.V.V. Kuybyshev). 200 copies (KL,20-58,98)

STRAMENTOV, A.Ye., prof., doktor tekhn.nauk; AKSEL'ROD, L.S., dots., kand.  
tekhn.nauk; TURCHIKHIN, E.Ya., inzh.

Using autoradiography in testing waterproofness of asphalt and cement  
concretes. Nauch.dokl.vys.shkoly; stroi. no.1:246-250 ' 58.

(MIRA 12:1)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury (for  
Stramentov). 2. Rekomendovana kafedroy grodskogo stroitel'stva i  
khozyaystva Moskovskogo inzhenerno-stroitel'nogo instituta imeni V.V.  
Kuybysheva.

(Radioisotopes--Industrial application)  
(Concrete--Testing)

ТУРЧИХИН, Е. Я.

SPERANTOV, N., kandidat tekhnicheskikh nauk, TURCHIKHIN, E.

Using radioactive isotopes in controlling production of packed  
slabs. Stroi.mat. 2 no.12:30-31 D '56. (MLBA 10:2)

1. Zaveduyushchiy laboratoriyey instituta im. V.V.Knybysheva  
(for Turchikhin).

(Radioisotopes== Industrial applications)  
(Building blocks)

DUBROVIN, Yevgeniy Nikolayevich; TURCHIKHIN, Emmanuil Yakovlevich;  
SHAFRAN, Vladimir Leont'yevich; SAPOYLOV, D.S., red.;  
ISEYEVA, R.Kh., red.izd-va; KHENOKH, F.M., tekhn. red.

[City vehicular and pedestrian crossings at various levels]  
Gorodskie transportnye i peshekhodnye peresechenia v raz-  
nykh urovniakh. Moskva, Izd-vo MKKh RSFSR, 1963. 131 p.  
(MIRA 17:2)

DUBROVIN, Yevgeniy Nikolayevich; TURCHIKHIN, Emmanuil Yakovlevich;  
YUDIN, Vasilii Aleksandrovich; LANTSBERG, Yu.S., red.;  
OVSYANNIKOVA, Z.G., red. izd-va; GRIGORCHUK, L.A., tekhn.  
red.

[Organization of the construction and operation of urban  
roads] Organizatsiia stroitel'stva i ekspluatatsii gorod-  
skikh dorog. Moskva, Vysshaya shkola, 1963. 305 p.  
(MIRA 16:8)

(Road construction) (Streets)

DUBROVIN, Yevgeniy Nikolayevich; ZAYTSEV, Leonid Konstantinovich;  
TURCHIKHIN, Emmanuil Yakovlevich; SOSYANTS, V.G., red.;  
LYUBINA, R.M., red.izd-va; KHENOKH, F.M., tekhn. red.

[The economics and the organization of the building and  
maintenance of city roads] Ekonomika i organizatsiia stroi-  
tel'stva i ekspluatatsii gorodskikh dorog. Moskva, Izd-vo  
MKKh RSFSR, 1963. 233 p. (MIRA 16:10)

(Roads)

TURCHIKHIN, E.Ya., inzhener.

Using radioactive isotopes for testing water resisting properties of  
the asphalt cement. Ger. khiz. Mosk. 31 no.3:34-35 Nr '57.

(Asphalt--Testing)

(MIRA 10:4)

(Radioisotopes--Industrial applications)

TIKHONOV, A.Ya., prof.; TURCHIKHIN, E.Ya., inzh.

Using radioactive isotopes for studying surface additives in  
asphalt concrete. Avt.dor.20 no.10:36-37 O '57. (MIRA 10:12)  
(Radioisotopes--Industrial applications) (Asphalt concrete--Testing)



DUBROVIN, Ye.N. dotsent; MERKULOV, Ye.A., dotsent; TURCHIKHIN, E.Ya.  
dotsent

Use precast reinforced concrete in ~~road~~ construction.  
Gor, khoz. Mosk. 36 no.9:17-20 S '62 (MIRA 15:10)

1. Vsesoyuznyy zaochnyy inzhenerno-stroitel'nyy institut.  
(Prestressed concrete construction) (Moscow—Road construction)

DUBROVIN, Yevgeniy Nikolayevich; TURCHIKHIN, Emmanuil Yakovlevich;  
ZAMAKHAYEV, M.S., red.

[Pavements of prestressed reinforced concrete] Dorozhnye  
pokrytiya iz predvaritel'no napriazhennogo zhelezobetona.  
Moskva, Transport, 1964. 97 p. (MIRA 17:6)

ROBROVIN, Ye.M.; MAYTSEV, I.K.; TURCHIKHIN, E.A.

...olved problem. Avt.dor. 28 no.2:21-23 Ag '65.

(MTR 28:11)

BIGOR-BIGOR, R.M.; GUYAN, E.S., PAINTER, R.F.; MO FOVILEY, J.A.  
TECHNICAL DATA

Using infrared rays an asphalt surface can be seen. The surface is  
28 no. 9520-22 0 166. 100 1000

S/117/60/000/006/005/010  
AC04/AC02

AUTHOR: Turchin, D.Ye.

TITLE: Press Mold for the Manufacture of Plastic Gears <sup>15</sup>

PERIODICAL: Mashinostroitel', 1960, No. 6, p. 24

TEXT: The author reports on a new press mold for the manufacture of caprone gears which was made at the "Tashtekstil'mash" Plant. The gear with cast spiral tooth is reinforced by a metal bushing. The gear rim is pressure-cast in a special press-mold on the MA-50 (LD-50) thermoplastic automatic. A diagram shows the design of the press mold which consists of a stationary and movable part. The stationary part is placed in a flange and is fastened to a stationary plate of the thermoplastic automatic. The author gives a detailed description of the press-mold design and its operation and points out that the manufacture of caprone gears by this method sets free gear-milling machines and saves metal. Moreover, caprone gears ensures noiseless operation. There are 2 figures. ✓

Card 1/1

TURCHIN, D.Ye.

Mold for making plastic pinions. Mashinostroitel' no.6:24  
Je '60. (MIRA 13:8)  
(Plastics--Molding)

1. TURCHIN D.YE.
2. USSR (600)
4. Turning
7. New system of trunign tapered pins. Vest.mash. 33 no.1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

TURCHIN, F., doktor sel'skokhoz.nauk, prof.

Chemistry and the harvest. NTO 6 no.1:5-6 Ja '64. (MIRA 17:2)

1. Predsedatel' sektsii khimizatsii Tsentral'nogo pravleniya Vsesoyuznogo khimicheskogo obshchestva im. Mendeleyeva.



TURCHIN, F., kapitan 1-go ranga

Political education of workers and employees. Form. 1.  
Sil 4 no.12:32-37 Je '64.

SOKOLOV, A. V., prof.; TURCHIN, F. V., prof.

Use of the isotopes  $P^{32}$  and  $N^{15}$  in the agricultural chemistry.  
Zhur. VKHO 7 no.5:489-494 '62. (MIRA 15:10)

(Agricultural chemistry) (Phosphorus—Isotopes)  
(Nitrogen—Isotopes)

1ST AND 2ND CROSS																										3RD AND 4TH CROSS																									
1ST AND 2ND CROSS																										3RD AND 4TH CROSS																									
PROCESSIES AND PROPERTIES INDEX																																																			
<p>Transformations of urea in the soil. P. V. TURCHIN. <i>Udobrenia i Ureahol</i> 3, 555-61(1931).—Definite amts. of <math>\text{CO}(\text{NH}_2)_2</math> were added to 150 g. of soil, incubated at 25-27°, and after certain intervals analyses were made for <math>\text{NO}_3</math>, <math>\text{NH}_4</math>, and <math>\text{CO}(\text{NH}_2)_2</math>. The urease method was used for the detn. of urea. Various soils were tested for their power to convert urea and the results are summarized as follows: (1) Urea is quickly transformed in the soil. This was especially true for the podzols and the slightly degraded chernozem. Very little transformation was noted in a sandy soil and in a carbonate soil. (2) The N from urea is more rapidly transformed into nitrates than ammonium salts. Addns. of chlorides or sulfates, especially the former, depress nitrification. (3) Inoculating the soil with urease or fertilizer depresses nitrification of urea. (4) The rapidity with which urea is transformed in the soil makes it one of the best N fertilizers, except on soils with an alk. reaction.</p> <p style="text-align: right;">J. S. Jovva</p>																																																			
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			

1ST AND 2ND CODES										3RD AND 4TH CODES									
PROCESSES AND PROPERTIES INDEX																			
<div style="display: flex; justify-content: space-between;"> <span>ca</span> <span>15</span> </div> <p style="text-align: center;">                     Agricultural-chemical study of urea. F. V. Turchin.                      Mineral. Udobreniya i Inzheneringizatsiya 1, No. 2, 63-73                      (1935); cf. C. A. 26, 2265. Chas. Blanc                 </p>																			
MATERIALS INDEX										METALLURGICAL LITERATURE CLASSIFICATION									
1ST AND 2ND CODES										3RD AND 4TH CODES									

1ST AND 2ND CODES		POLYMER AND PROPERTY INDEX		100 AND 4TH CODES	
15					
<p><i>Cr</i></p> <p><b>Comparative effectiveness of Ammonitrophosphates.</b> V. V. Turchin. <i>Mineral. Udobreniya i Iskhodnykh Veshchestv</i> No. 3, 41-9 (1935).--The availability of Ammonitrophosphates is detd. by their chem. compn. and the methods of production. The product, obtained by satn. with <math>NH_3</math> of the <math>HNO_3</math> ext. of phosphorite without preliminary partial sepn. of Ca, is a mixt. of <math>NH_4NO_3</math> and <math>Ca_3(PO_4)_2</math>, and, therefore, is only suitable for use in acid soils. By a complete sepn. of Ca with <math>(NH_4)_2SO_4</math> from the <math>HNO_3</math> extn. of phosphorite with subsequent neutralization with <math>NH_3</math>, a mixt. of <math>NH_4NO_3</math> and <math>NH_4H_2PO_4</math> (Amimophos) results with high fertilizing effectiveness. The products obtained with sepn. of 0.5 of the Ca from the <math>HNO_3</math> extn. of phosphorite with <math>(NH_4)_2SO_4</math> and neutralization of the mixt. at <math>pH = 6.3-6.5</math> with <math>NH_3</math> are mixts. of <math>NH_4NO_3</math> and <math>Ca_3(PO_4)_2</math>. The effectiveness of these fertilizers depends on the temp. conditions of their prepn. The products obtained by satn. at <math>30-40^\circ</math> and subsequent drying at <math>100^\circ</math> gave better harvests than the similar products obtained at higher temps. of satn. and drying. Their effectiveness in 3 different kinds of soil in pot expts. was equal to that of the mixt. of <math>NH_4NO_3</math> with superphosphate or with chemically pure aq. ppt. The degree of soly. in citrate soln. is an indication of the effectiveness of these products.</p>					
<p>This method is not suitable for the products contaminated with Fe and Al phosphates, because they are also sol. in a citrate soln. though their <math>P_2O_5</math> is less available for plants than that of <math>CaHPO_4</math> and <math>Ca(H_2PO_4)_2</math>. C. B.</p>					
<p>ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION</p>					

*CA*

The agricultural chemical characteristics of potash-ammonium nitrate, P. V. Turchin. *Mineral'nye Udobreniya Inzheneringovsk. K.*, No. 6; 66-72(1935). The best fertilizer for areas requiring N and K is an equal mol. mixt. of  $\text{NH}_4\text{NO}_3$  and KCl. The presence of Cl (22-23% of the weight of the fertilizer) is the potash-ammonium nitrate fertilizer does not have a detrimental effect on the plants. A. A. Bochtling

15

15

Agrochemical investigation of urea. P. V. Turylin. *Mineral. (dobreinyi i islebofungi) 1933, No. 2, (31-73; Chem. Zentr. 1936, 1, 2183-4.* In the soil urea is rapidly converted into  $(\text{NH}_4)_2\text{CO}_3$ . When a.mts. were added to the soil which considerably exceeded those commonly used for field doses, this conversion was complete in 1-2 days. This conversion is most rapid in chernozem and podzol soils, less so in sand and carbonate soils. Urea is much more rapidly nitrified in the soil than, e. g.,  $\text{NH}_4\text{Cl}$  or  $(\text{NH}_4)_2\text{SO}_4$ , whose nitrification is retarded by  $\text{Cl}^-$  and  $\text{SO}_4^{2-}$  ions. Since the  $\text{HNO}_3$  formed during the nitrification of urea is absorbed by plants, this acidifying action on the soil is said to be much feebler than in the case of  $(\text{NH}_4)_2\text{SO}_4$  and other  $\text{NH}_4$  fertilizers. For this reason urea is a more satisfactory fertilizer for use on acid soil for plants sensitive to higher acidity than sulfate

and other  $\text{NH}_4$  fertilizers. The instability of the action of urea occasionally observed on alk. soils is due to the neg. action of the  $\text{NH}_4$  formed during its decompos. The undesirable action of the  $\text{NH}_4$  in such cases can be neutralized by the simultaneous application of potash fertilizer. Application of urea to soil where seeds had been recently sown resulted in a marked retardation of germination and growth in the case of plants sensitive to  $\text{NH}_4$  (sugar beets, cotton plants). In this case also the simultaneous adding of potash fertilizer neutralized the action of the  $\text{NH}_4$ , especially with sugar beets. Expts. with plants indicated that the localization of the whole combination of fertilizers used (N, P, K, irrespective of the form of N fertilizer) in the neighborhood of the planted seeds using fertilizer mixtures considerably higher than those used in field expts. possessed marked advantages over the uniform distribution of the fertilizer within the whole mass of soil.

M. G. Moore

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
COMMON ELEMENTS																										COMMON VARIANTS																									
<p><i>ca</i></p> <p><b>The agrochemical evaluation of Ammonitrophos.</b> P. V. Turchin. <i>Mineral. Udobreniya i Iskhodnykh Veshchestv</i> 1935, No. 3, 41-9; <i>Chem. Zentr.</i> 1936, 1, 2184. Ammonitrophos (Ca phosphate and <math>\text{NH}_4\text{NO}_3</math>) is prepd. by satg. citrate-contg. powd. phosphorite or its ext. with <math>\text{NH}_4\text{NO}_3</math> without previously removing a part of the Ca. It is a mixt. of <math>\text{NH}_4\text{NO}_3</math> and <math>\text{Ca}_3(\text{PO}_4)_2</math>. Such preps. can be used to advantage only in acid podzol soil. Since on such soils phosphorite powder, <math>\text{P}_2\text{O}_5</math>, is almost as effective as the Ammonitrophos product whose <math>\text{P}_2\text{O}_5</math> is combined as <math>\text{Ca}_3(\text{PO}_4)_2</math>, there is no great advantage to be gained in the prepn. of the latter. If the Ca is removed from the <math>\text{HNO}_3</math> ext. by addn. of <math>(\text{NH}_4)_2\text{SO}_4</math> and the ext. then neutralized with <math>\text{NH}_3</math>, a mixt. of <math>\text{NH}_4\text{NO}_3</math> and <math>\text{NH}_4</math> phosphates (Am-mophos) is obtained. If only about half of the Ca is removed before neutralization with <math>\text{NH}_3</math> (<math>\text{pH}</math> 6.3-6.5), then a mixt. of <math>\text{CaHPO}_4</math> and <math>\text{NH}_4\text{NO}_3</math> is obtained. The effectiveness of such a mixed fertilizer depends in part upon its temp. of prepn. A prepn. prepd. at a satn. temp. of 30-40° and a drying temp. of 100° produces just as great an increase in crop yield as a mixt. of <math>\text{NH}_4\text{NO}_3</math> with superphosphate. Preps. produced at higher temps. which can be used in the absence of large amts. of Fe and Al phosphates is the only. of the <math>\text{P}_2\text{O}_5</math> in citrate soln. This method is not useful in the presence of large amts. of <math>\text{P}_2\text{O}_5</math> combined as sesquioxide, since the latter, in spite of its soly. in citrate soln. is less effective as a fertilizer than <math>\text{Ca}(\text{H}_2\text{PO}_4)_2</math> and <math>\text{CaHPO}_4</math>. M. G. Moure</p>																										<p>15</p>																									
<p>458 S.L.A. METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			



1ST AND 2ND GROUPS		3RD AND 4TH GROUPS	
COMMON ELEMENTS		COMMON ELEMENTS	
<p>15</p> <p>The results of agrochemical investigations with Ammonitrophos. F. V. Turchin. <i>Trans. Sci. Inst. Fertilizers Insecto/fungicides</i> (U. S. S. R.) No. 126, 55-56 (in German: 55-5) (1935).—Ammonitrophos is a product obtained by treating rock phosphate with <math>HNO_3</math> and neutralizing with <math>NH_3</math>. The ratio of N to <math>P_2O_5</math> in the final product varies between 1:1, and 1:2. It consists of <math>Ca_3(PO_4)_2</math> and <math>NH_4NO_3</math> with admixtures of <math>Ca(NO_3)_2</math>. Some of these mixtures were treated with <math>CO_2</math> giving also <math>CaCO_3</math>. On chernozem this preparation was far inferior to the acid phosphate, but on the podzolic soils the <math>P_2O_5</math> was available to plants. The drying of these preparations at a temperature above <math>45^\circ</math> decreases the availability of the <math>P_2O_5</math>.</p> <p>J. S. Joffe</p>			
<p>ASR-5LA METALLURGICAL LITERATURE CLASSIFICATION</p>			
MATERIAL INDEX		SUBJECT INDEX	
GROUPS		GROUPS	
1ST GROUP		2ND GROUP	
3RD GROUP		4TH GROUP	

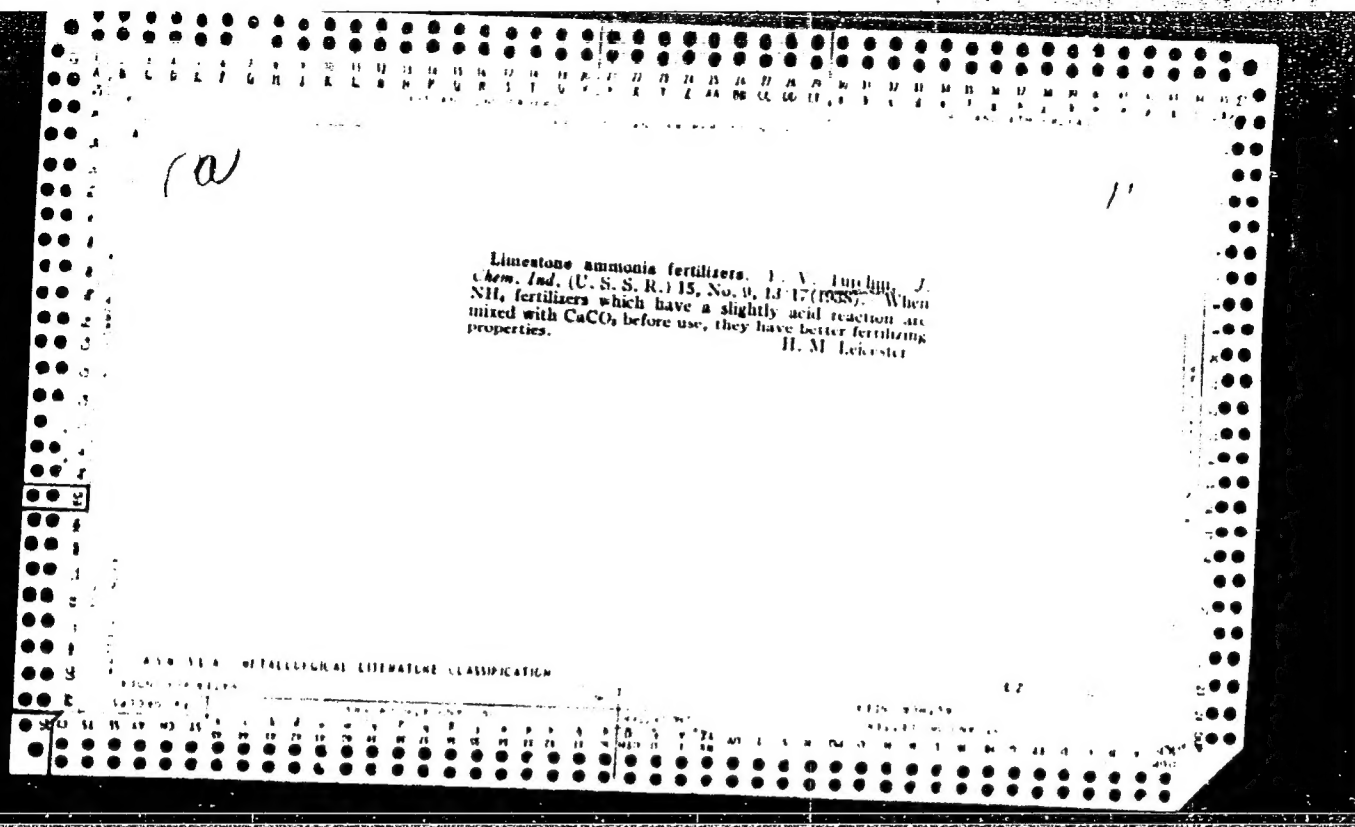
15

18

Ammoniated superphosphate and the availability of its  $P_2O_5$ . F. V. Turchin. *Trans. Sci. Inst. Fertilizers Insectofungicides* (U. S. S. R.) No. 126, 72-82(1935).—  
 Ammoniation of acid phosphate to the limit of one mol. of  $NH_3$  per mol. of  $P_2O_5$  above the  $NH_3$  necessary for the neutralization of the free acid in acid phosphate does not depress the effectiveness of the  $P_2O_5$ . This was found to be true for all the fundamental soil types of the U. S. S. R. Phosphates highly satd. with  $NH_3$ , when tricalcium phosphate appears, are applicable with effectiveness to the soils of the podsol zone. On chernozems its effect decreases and is not desired. Ammoniated double superphosphate contg. 5% N and 45% citrate-sol.  $P_2O_5$  was found to be a good source of P on podzols and on deep chernozem.  
 J. S. Joffe

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1940-1949 1950-1959 1960-1969 1970-1979 1980-1989 1990-1999 2000-2009 2010-2019 2020-2029 2030-2039 2040-2049 2050-2059 2060-2069 2070-2079 2080-2089 2090-2099 2100-2109 2110-2119 2120-2129 2130-2139 2140-2149 2150-2159 2160-2169 2170-2179 2180-2189 2190-2199 2200-2209 2210-2219 2220-2229 2230-2239 2240-2249 2250-2259 2260-2269 2270-2279 2280-2289 2290-2299 2300-2309 2310-2319 2320-2329 2330-2339 2340-2349 2350-2359 2360-2369 2370-2379 2380-2389 2390-2399 2400-2409 2410-2419 2420-2429 2430-2439 2440-2449 2450-2459 2460-2469 2470-2479 2480-2489 2490-2499 2500-2509 2510-2519 2520-2529 2530-2539 2540-2549 2550-2559 2560-2569 2570-2579 2580-2589 2590-2599 2600-2609 2610-2619 2620-2629 2630-2639 2640-2649 2650-2659 2660-2669 2670-2679 2680-2689 2690-2699 2700-2709 2710-2719 2720-2729 2730-2739 2740-2749 2750-2759 2760-2769 2770-2779 2780-2789 2790-2799 2800-2809 2810-2819 2820-2829 2830-2839 2840-2849 2850-2859 2860-2869 2870-2879 2880-2889 2890-2899 2900-2909 2910-2919 2920-2929 2930-2939 2940-2949 2950-2959 2960-2969 2970-2979 2980-2989 2990-2999 3000-3009 3010-3019 3020-3029 3030-3039 3040-3049 3050-3059 3060-3069 3070-3079 3080-3089 3090-3099 3100-3109 3110-3119 3120-3129 3130-3139 3140-3149 3150-3159 3160-3169 3170-3179 3180-3189 3190-3199 3200-3209 3210-3219 3220-3229 3230-3239 3240-3249 3250-3259 3260-3269 3270-3279 3280-3289 3290-3299 3300-3309 3310-3319 3320-3329 3330-3339 3340-3349 3350-3359 3360-3369 3370-3379 3380-3389 3390-3399 3400-3409 3410-3419 3420-3429 3430-3439 3440-3449 3450-3459 3460-3469 3470-3479 3480-3489 3490-3499 3500-3509 3510-3519 3520-3529 3530-3539 3540-3549 3550-3559 3560-3569 3570-3579 3580-3589 3590-3599 3600-3609 3610-3619 3620-3629 3630-3639 3640-3649 3650-3659 3660-3669 3670-3679 3680-3689 3690-3699 3700-3709 3710-3719 3720-3729 3730-3739 3740-3749 3750-3759 3760-3769 3770-3779 3780-3789 3790-3799 3800-3809 3810-3819 3820-3829 3830-3839 3840-3849 3850-3859 3860-3869 3870-3879 3880-3889 3890-3899 3900-3909 3910-3919 3920-3929 3930-3939 3940-3949 3950-3959 3960-3969 3970-3979 3980-3989 3990-3999 4000-4009 4010-4019 4020-4029 4030-4039 4040-4049 4050-4059 4060-4069 4070-4079 4080-4089 4090-4099 4100-4109 4110-4119 4120-4129 4130-4139 4140-4149 4150-4159 4160-4169 4170-4179 4180-4189 4190-4199 4200-4209 4210-4219 4220-4229 4230-4239 4240-4249 4250-4259 4260-4269 4270-4279 4280-4289 4290-4299 4300-4309 4310-4319 4320-4329 4330-4339 4340-4349 4350-4359 4360-4369 4370-4379 4380-4389 4390-4399 4400-4409 4410-4419 4420-4429 4430-4439 4440-4449 4450-4459 4460-4469 4470-4479 4480-4489 4490-4499 4500-4509 4510-4519 4520-4529 4530-4539 4540-4549 4550-4559 4560-4569 4570-4579 4580-4589 4590-4599 4600-4609 4610-4619 4620-4629 4630-4639 4640-4649 4650-4659 4660-4669 4670-4679 4680-4689 4690-4699 4700-4709 4710-4719 4720-4729 4730-4739 4740-4749 4750-4759 4760-4769 4770-4779 4780-4789 4790-4799 4800-4809 4810-4819 4820-4829 4830-4839 4840-4849 4850-4859 4860-4869 4870-4879 4880-4889 4890-4899 4900-4909 4910-4919 4920-4929 4930-4939 4940-4949 4950-4959 4960-4969 4970-4979 4980-4989 4990-4999 5000-5009 5010-5019 5020-5029 5030-5039 5040-5049 5050-5059 5060-5069 5070-5079 5080-5089 5090-5099 5100-5109 5110-5119 5120-5129 5130-5139 5140-5149 5150-5159 5160-5169 5170-5179 5180-5189 5190-5199 5200-5209 5210-5219 5220-5229 5230-5239 5240-5249 5250-5259 5260-5269 5270-5279 5280-5289 5290-5299 5300-5309 5310-5319 5320-5329 5330-5339 5340-5349 5350-5359 5360-5369 5370-5379 5380-5389 5390-5399 5400-5409 5410-5419 5420-5429 5430-5439 5440-5449 5450-5459 5460-5469 5470-5479 5480-5489 5490-5499 5500-5509 5510-5519 5520-5529 5530-5539 5540-5549 5550-5559 5560-5569 5570-5579 5580-5589 5590-5599 5600-5609 5610-5619 5620-5629 5630-5639 5640-5649 5650-5659 5660-5669 5670-5679 5680-5689 5690-5699 5700-5709 5710-5719 5720-5729 5730-5739 5740-5749 5750-5759 5760-5769 5770-5779 5780-5789 5790-5799 5800-5809 5810-5819 5820-5829 5830-5839 5840-5849 5850-5859 5860-5869 5870-5879 5880-5889 5890-5899 5900-5909 5910-5919 5920-5929 5930-5939 5940-5949 5950-5959 5960-5969 5970-5979 5980-5989 5990-5999 6000-6009 6010-6019 6020-6029 6030-6039 6040-6049 6050-6059 6060-6069 6070-6079 6080-6089 6090-6099 6100-6109 6110-6119 6120-6129 6130-6139 6140-6149 6150-6159 6160-6169 6170-6179 6180-6189 6190-6199 6200-6209 6210-6219 6220-6229 6230-6239 6240-6249 6250-6259 6260-6269 6270-6279 6280-6289 6290-6299 6300-6309 6310-6319 6320-6329 6330-6339 6340-6349 6350-6359 6360-6369 6370-6379 6380-6389 6390-6399 6400-6409 6410-6419 6420-6429 6430-6439 6440-6449 6450-6459 6460-6469 6470-6479 6480-6489 6490-6499 6500-6509 6510-6519 6520-6529 6530-6539 6540-6549 6550-6559 6560-6569 6570-6579 6580-6589 6590-6599 6600-6609 6610-6619 6620-6629 6630-6639 6640-6649 6650-6659 6660-6669 6670-6679 6680-6689 6690-6699 6700-6709 6710-6719 6720-6729 6730-6739 6740-6749 6750-6759 6760-6769 6770-6779 6780-6789 6790-6799 6800-6809 6810-6819 6820-6829 6830-6839 6840-6849 6850-6859 6860-6869 6870-6879 6880-6889 6890-6899 6900-6909 6910-6919 6920-6929 6930-6939 6940-6949 6950-6959 6960-6969 6970-6979 6980-6989 6990-6999 7000-7009 7010-7019 7020-7029 7030-7039 7040-7049 7050-7059 7060-7069 7070-7079 7080-7089 7090-7099 7100-7109 7110-7119 7120-7129 7130-7139 7140-7149 7150-7159 7160-7169 7170-7179 7180-7189 7190-7199 7200-7209 7210-7219 7220-7229 7230-7239 7240-7249 7250-7259 7260-7269 7270-7279 7280-7289 7290-7299 7300-7309 7310-7319 7320-7329 7330-7339 7340-7349 7350-7359 7360-7369 7370-7379 7380-7389 7390-7399 7400-7409 7410-7419 7420-7429 7430-7439 7440-7449 7450-7459 7460-7469 7470-7479 7480-7489 7490-7499 7500-7509 7510-7519 7520-7529 7530-7539 7540-7549 7550-7559 7560-7569 7570-7579 7580-7589 7590-7599 7600-7609 7610-7619 7620-7629 7630-7639 7640-7649 7650-7659 7660-7669 7670-7679 7680-7689 7690-7699 7700-7709 7710-7719 7720-7729 7730-7739 7740-7749 7750-7759 7760-7769 7770-7779 7780-7789 7790-7799 7800-7809 7810-7819 7820-7829 7830-7839 7840-7849 7850-7859 7860-7869 7870-7879 7880-7889 7890-7899 7900-7909 7910-7919 7920-7929 7930-7939 7940-7949 7950-7959 7960-7969 7970-7979 7980-7989 7990-7999 8000-8009 8010-8019 8020-8029 8030-8039 8040-8049 8050-8059 8060-8069 8070-8079 8080-8089 8090-8099 8100-8109 8110-8119 8120-8129 8130-8139 8140-8149 8150-8159 8160-8169 8170-8179 8180-8189 8190-8199 8200-8209 8210-8219 8220-8229 8230-8239 8240-8249 8250-8259 8260-8269 8270-8279 8280-8289 8290-8299 8300-8309 8310-8319 8320-8329 8330-8339 8340-8349 8350-8359 8360-8369 8370-8379 8380-8389 8390-8399 8400-8409 8410-8419 8420-8429 8430-8439 8440-8449 8450-8459 8460-8469 8470-8479 8480-8489 8490-8499 8500-8509 8510-8519 8520-8529 8530-8539 8540-8549 8550-8559 8560-8569 8570-8579 8580-8589 8590-8599 8600-8609 8610-8619 8620-8629 8630-8639 8640-8649 8650-8659 8660-8669 8670-8679 8680-8689 8690-8699 8700-8709 8710-8719 8720-8729 8730-8739 8740-8749 8750-8759 8760-8769 8770-8779 8780-8789 8790-8799 8800-8809 8810-8819 8820-8829 8830-8839 8840-8849 8850-8859 8860-8869 8870-8879 8880-8889 8890-8899 8900-8909 8910-8919 8920-8929 8930-8939 8940-8949 8950-8959 8960-8969 8970-8979 8980-8989 8990-8999 9000-9009 9010-9019 9020-9029 9030-9039 9040-9049 9050-9059 9060-9069 9070-9079 9080-9089 9090-9099 9100-9109 9110-9119 9120-9129 9130-9139 9140-9149 9150-9159 9160-9169 9170-9179 9180-9189 9190-9199 9200-9209 9210-9219 9220-9229 9230-9239 9240-9249 9250-9259 9260-9269 9270-9279 9280-9289 9290-9299 9300-9309 9310-9319 9320-9329 9330-9339 9340-9349 9350-9359 9360-9369 9370-9379 9380-9389 9390-9399 9400-9409 9410-9419 9420-9429 9430-9439 9440-9449 9450-9459 9460-9469 9470-9479 9480-9489 9490-9499 9500-9509 9510-9519 9520-9529 9530-9539 9540-9549 9550-9559 9560-9569 9570-9579 9580-9589 9590-9599 9600-9609 9610-9619 9620-9629 9630-9639 9640-9649 9650-9659 9660-9669 9670-9679 9680-9689 9690-9699 9700-9709 9710-9719 9720-9729 9730-9739 9740-9749 9750-9759 9760-9769 9770-9779 9780-9789 9790-9799 9800-9809 9810-9819 9820-9829 9830-9839 9840-9849 9850-9859 9860-9869 9870-9879 9880-9889 9890-9899 9900-9909 9910-9919 9920-9929 9930-9939 9940-9949 9950-9959 9960-9969 9970-9979 9980-9989 9990-9999



1st and 2nd orders

PROCESSING AND PROPERTY DATA

12

Increasing the coefficient of activity of physiologically acid nitrogen fertilizers by liming. L. A. Timonin and Yu. P. Chirikov. *Chemical Science* 1977, 10, No. 8, 46-50 (USSR). Addn. of  $\text{CaCO}_3$  to physiologically acid N salts, like  $(\text{NH}_4)_2\text{SO}_4$ ,  $\text{NH}_4\text{Cl}$  or  $\text{NH}_4\text{NO}_3$ , increase the efficiency of these in acid soils. Large quantities of phosphate act in a manner similar to lime. On acid soils these salts decrease the coeff. of phosphate utilization by plants. When the physiologically produced acid is neutralized by  $\text{CaCO}_3$  on podzol soils the phosphate content of the plants increases. I. S. Joffe

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

180000-17 JNY DBL

180000-17 JNY DBL

180000-17 JNY DBL